BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Improvements to Roads at ward No. 07, Byatarayanapura in Ajjana, Muneswamagowda layout

ESTIMATED COST 2000000.00

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300-3. Earthwork excavation and foming in embankment by manual means in ordinary soil with initial lead upto 15 m. and lift of 1.5m. (When earth is taken from bank cutting or from borrow pits) including breaking of clods, spreading to required line and level, forming, and cost of all labour complete as per specifications. (excluding watering and compaction of earth) (P.No.150, I.No.19.3 of PW,P&IWTD S.R 2012-13)						Cum		
	Ajjana layout- 1st Cross		1	196.00	5.50	0.15	161.70		
	2nd Cross		1	108.00	5.50	0.15	89.10		
	3rd Cross		1	136.00	5.50	0.15	112.20		
	Muneswamagowda layout- 1st Cross		1	102.00	5.50	0.15	84.15		
	2nd Cross		1	98.00	5.50	0.15	80.85		
	Basic Rate Rs.	69.00					**528.00**	74.52	**39347.00**
	Add 8% A.W Rs.	5.52							
	Total Rate Rs.	**74.52**							
2	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. (P. 158, I.No. 19.64) SR-2012-13								
	Ajjana layout- 1st Cross		1	196.00	5.50		1078.00		
	2nd Cross		1	108.00	5.50		594.00		
	3rd Cross		1	136.00	5.50		748.00		
	Muneswamagowda layout- 1st Cross		1	102.00	5.50		561.00		
	2nd Cross		1	98.00	5.50		539.00		
							3520.00	3.78	**13306.00**
	Basic Rate	3.50							
	Area Weightage @ 8%	0.28							
	Total	**3.78**							
3	KSRRB 300-64.2. Extra for watering the earth to bring the earth upto required optimum moisture content with mechinery including cost of all labour, HOM of machineries complete as per specifications. (P. 159, I.No. 19.72) SR-2012-13								
	Ajjana layout- 1st Cross		1	196.00	5.50		1078.00		
	2nd Cross		1	108.00	5.50		594.00		
	3rd Cross		1	136.00	5.50		748.00		
	Muneswamagowda layout- 1st Cross		1	102.00	5.50		561.00		
	2nd Cross		1	98.00	5.50		539.00		
							3520.00	1.89	**6653.00**
	Basic Rate	1.75							
	Area Weightage @ 8%	0.14							
	Total	**1.89**							
4	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. (P. 168 Item No. 20.18) SR 2012-13						Cum		
	Ajjana layout- 1st Cross		1	196.00	5.50	0.20	215.60		
	2nd Cross		1	108.00	5.50	0.20	118.80		
	3rd Cross		1	136.00	5.50	0.20	149.60		
	Muneswamagowda layout- 1st Cross		1	102.00	5.50	0.20	112.20		
	2nd Cross		1	98.00	5.50	0.20	107.80		

	Basic Rate Rs.	981.00	✓				**704.00**	1059.48	**745874.00**
	Add 8% A.W Rs.	78.48	✓						
	Total Rate Rs.	**1059.48**	✓						
5	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. (P. 172, Item No. 21.6) SR 2012-13						**Sqm**		
	Ajjana layout- 1st Cross		1	196.00	5.50		1078.00		
	2nd Cross		1	108.00	5.50		594.00		
	3rd Cross		1	136.00	5.50		748.00		
	Muneswamagowda layout- 1st Cross		1	102.00	5.50		561.00		
	2nd Cross		1	98.00	5.50		539.00	✓ ✓	✓
	Basic Rate Rs.	36.70	✓				**3520.00**	39.64	**139519.00**
	Add 8% A.W Rs.	2.94	✓						139533.0
	Total Rate Rs.	**39.64**	✓						
6	KSRRB M500-18. Providing and laying semi dense bituminous concrete 25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects as per specifications. with 80/100 grade bitumen using 40-60 HMP using mechanical paver (P. 175, Item No. 21.20.5) SR 2012-13						**Cum**		
	Ajjana layout- 1st Cross		1	196.00	5.50	0.025	26.95		
	2nd Cross		1	108.00	5.50	0.025	14.85		
	3rd Cross		1	136.00	5.50	0.025	18.70		
	Muneswamagowda layout- 1st Cross		1	102.00	5.50	0.025	14.03		
	2nd Cross		1	98.00	5.50	0.025	13.48	✓ ✓	✓
	Basic Rate Rs.	8326.00	✓				**88.00**	8992.08	**791303.00**
	Add 8% A.W Rs.	666.08	✓						
	Total Rate Rs.	**8992.08**	✓						
7	KSRRB M300-2: Earth work excavation by manual means in Ordinary Soil involving an average horizontal throw up to 2mts and an average lift up to 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3.						**Cum**		
	(P.No.150, I.No.19.1 of PW,P&IWTD S.R 2012-13)								
	Ajjana layout- 1st Cross		2	196.00	0.45	0.30	52.92		
	2nd Cross		1	108.00	0.45	0.30	14.58		
	3rd Cross		2	136.00	0.45	0.30	36.72		
	Muneswamagowda layout- 1st Cross		2	102.00	0.45	0.30	27.54		
	2nd Cross		2	98.00	0.45	0.30	26.46		✓
	Basic Rate Rs.	54.00	✓				**158.22**	58.32	**9227.00**
	Add 8% A.W Rs.	4.32	✓						
	Total Rate Rs.	**58.32**	✓						
8	Removing BS Slab of drain and stacking.						Sqm		
	(P.No.28, I.No.5.32 of PW,P&IWTD S.R 2012-13)								
	Ajjana layout- 1st Cross		2	196.00	0.45	1.35	238.14		
	2nd Cross		1	108.00	5.80	1.35	845.64		
	3rd Cross		2	136.00	0.45	1.35	165.24		
	Muneswamagowda layout- 1st Cross		2	102.00	0.45	1.35	123.93		
	2nd Cross		2	98.00	0.45	1.35	119.07		
	Basic Rate Rs.	41.18	✓				**1492.02**	44.47	**66357.00**
	Add 8% A.W Rs.	3.29	✓						66350.1
	Total Rate Rs.	**44.47**	✓						

9	Refixing stone slabs of drains and pointing in CM 1:3.							
	(P.No.28, I.No. 5.33 of PW,P&IWTD S.R 2012-13)							
		Sqm	Qty Same as I.No.1 (90%)			1342.82	63.00	84593.00 84597.66
	Basic Rate Rs.	58.33	✓					
	Add 8% A.W Rs.	4.67	✓					
		63.00	✓					
10	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (7.50cms thick)							
	(P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2012-13.)							
		Sqm						
			Qty Same as I.No.1 -10%)			**149.20**	✓	✓
	Basic Rate Rs.	292.00	✓			**149.20**	315.36	**47052.00**
	Add 8% A.W Rs.	23.36	✓					
	Total Rate Rs.	**315.36**	✓					
11	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 5.00 Km (Page No.141)					Cum		
		Qty. Vide Item No. 1				**528.00**		
		Qty. Vide Item No.7				**158.22**	✓	✓
						686.22	81.00	**55584.00**
Basic Ratefor haulage of materials as per it		12.80	✓					
Average weight of earth 1.28 tonne/Kg fo		62.20	✓					
Add loading and unloading vide item No. 1		75.00	✓					
	Area Weightage @ 8%	6.00	✓					
	Total	81.00	✓					1173.24.
12	Miscesallaneous Charges	L/S						1185.00
							Total	**2000000.00**

(Rupees:- Twenty Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2012-2013.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward No. 7

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs. 20 Lakhs
Rupees Twenty Lakhs only
Under MLA Grants
Registered as EE ( ) No ......3......9.....
Subject to conditions contained in enclosed memo EE(Y) No 880 /9/ 2012-13
Dt 5/2/2013 Estimate A/Sanctioned JC(Yel) A/A No 880/2012-13
dated 5/2/2013 Rs 20 Lakhs

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92.
5/2/13

Technical Sanction for Rs. 20 lakhs Twenty lakh only
MLA Grant
Registered as EE ... 62 / 12-13 Subject to conditions contained enclosed memo. 67 / 12-13 Dt. 6.2.13

AE/JE